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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/867,973	05/30/2001	Ronald Paul Rohrbach	H0001202	8302
75	90 03/10/2006		EXAM	INER
Honeywell International Inc.			CINTINS, IVARS C	
101 Columbia F	Road			
P.O. Box 2245			ART UNIT	PAPER NUMBER
Morristown, N.	J 07962		1724	
			DATE MAIL ED: 02/10/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Author Occur	09/867,973	ROHRBACH ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ivars C. Cintins	1724	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING THE METERS IN THE METERS	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be the solution of the sol	DN. imely filed m the mailing date of this communication IED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>08 D</u>	ecember 2005		
<u> </u>	action is non-final.		
3) Since this application is in condition for allowar		rosecution as to the merits i	s
closed in accordance with the practice under E	•		
Disposition of Claims			
4)⊠ Claim(s) <u>1-10 and 13-18</u> is/are pending in the	application		
4a) Of the above claim(s) is/are withdraw	• •		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-10 and 13-18</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	ır.		
10) The drawing(s) filed on is/are: a) acceptable		Examiner	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	-,,	` ,	(d).
11) The oath or declaration is objected to by the Ex		•	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.		
<ol><li>Certified copies of the priority documents</li></ol>	s have been received in Applica	tion No	
<ol><li>Copies of the certified copies of the prior</li></ol>	rity documents have been receiv	ed in this National Stage	
application from the International Bureau			
* See the attached detailed Office action for a list	of the certified copies not receiv	ed.	
Attachment(s)	_		
I) ☐ Notice of References Cited (PTO-892)  Provided In Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail D		
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)	
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U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application/Control Number: 09/867,973

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 5-10 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brownawell et al. (U.S. Patent No. 5,069,799; hereinafter "Brownawell '799"). Brownawell '799 discloses an oil filter comprising a hollow housing having an inlet and an outlet, a mechanically active filter member (i.e. "inactive filter media" 12) disposed inside the housing, and a chemically active filter member (i.e. 14) disposed inside this housing. This reference further discloses an embodiment (see Fig. 2) having a supplemental cartridge with a chemically active filter member (i.e. 30) disposed therein. The chemically active filter member includes a plurality of particles (see col. 2, line 6) containing a beneficial additive such as a basic salt of the type recited (see col. 2, lines 12-17). Accordingly, this reference discloses the claimed invention with the exception of the diameter of the particles in the chemically active filter member (claims 1, 2 and 5-10), and the percentage of additive in these particles (claim 18). However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ particles having the recited diameter in the reference system, in order to facilitate handling of the treatment material in this reference system. Also, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the recited amount of beneficial additive in the reference particles, in order to ensure that a sufficient amount of additive is present in these particles to adequately rejuvenate the oil undergoing treatment.

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Claims 3, 13-15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brownawell '799 as applied above, and further in view of DeJovine (U.S. Patent No. 4,144,166). Brownawell '799 as modified above discloses the claimed invention with the exception of the recited polymeric binder (claim 3), and the presence of an antioxidant as the beneficial agent (claims 13-15 and 17). DeJovine discloses a similar oil filter, and teaches supporting an oil additive material such as calcium carbonate or calcium hydroxide (see col. 11, lines 57-58) with a polymeric material of the type recited (see col. 3, line 20). It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the polyolefin of DeJovine as the "polymer matrix" of Brownawell '799 (see col. 2, line 2), since this polyolefin is capable of supporting the calcium carbonate or calcium hydroxide of this primary reference (see col. 2, lines 12-13) in the required manner. Also, this secondary reference teaches that antioxidants of the type recited can be employed as additives for lubricating oil (see col. 11, lines 41-43 and 48-53); and it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the antioxidants disclosed by DeJovine into the chemically active filter member of Brownawell '799, in order to inhibit oxidation of the oil undergoing treatment in this modified primary reference system.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brownawell '799 as applied above, and further in view of Bilski et al. (U.S. Patent No. 5,725,031; hereinafter "Bilski"). Brownawell '799 as modified above discloses the claimed invention with the exception of the recited location of the chemically active filter element with respect to the mechanically active filter element. Bilski discloses a similar oil filter containing both a mechanically active filter element and means for adding a chemical to oil undergoing treatment,

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and further discloses (see Fig. 1) locating the chemical adding element radially and coaxially inside the mechanically active filter element. It would have been obvious to one of ordinary skill in the art at the time the invention was made to locate the chemically active filter element (i.e. 14) of Brownawell '799 inside the mechanically active filter element (i.e. 12), as suggested by Bilski, in order to produce a more compact filtration and treatment device.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brownawell '799 and DeJovine as applied above, and further in view of Robers et al. (U.S. Patent No. 5,544,699; hereinafter "Robers"). The modified primary reference discloses the claimed invention with the exception of the recited auxiliary inlet and outlet tubes. Robers discloses an oil filter having auxiliary inlet and outlet tubes (42 and 44), in order to cool the oil in the system. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the system of the modified primary reference with the cooling arrangement of Robers, in order to obtain the advantages disclosed by this secondary reference for the system of the modified primary reference.

Applicant's arguments filed December 8, 2005 have been noted and carefully considered but are not deemed to be persuasive of patentability. Applicant argues that Brownawell '799 discloses pellets which can be cylindrical or spherical, and that it would be recognized by those skilled in the art that cylindrical particles would not provide the necessary interstitial spaces. It is pointed out, however, that a group of particles having any shape, be it spherical or cylindrical, will inherently have some interstitial space between adjacent particles; and this is all that is required by claim 1.

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As for the particle size recitation contained in claims 1, 7 and 13, Applicant should note that the particles in the chemically active filter member of Brownawell '799 must inherently have some average diameter; and that one of ordinary skill in the oil treatment art would readily recognize that particles having an average diameter significantly below 0.1 millimeters could cause handling problems in the reference device, since powders are more difficult to handle than are larger granules; and would further recognize that particles having an average diameter significantly above 6 millimeters could cause problems in the reference device, since the intersticial space between these particles could be too great to produce adequate contact between the chemically active media and the oil undergoing treatment. Accordingly, this skilled artisan would have been motivated to select particles having an average diameter within the recited range, in order to avoid the above noted problems.

As for the additive percentage recitation contained in claim 18, Applicant should note that the particles in the chemically active filter member of Brownawell '799 must inherently have <u>some</u> percentage of beneficial additive; and that one of ordinary skill in the oil treatment art would readily recognize that particles having a greater concentration of beneficial additive would be more efficient in treating oil than would particles having a lesser concentration of this additive. Accordingly, this skilled artisan would have been motivated to employ particles having the recited percentage of beneficial additive in the reference device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is 571-272-1155. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If

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attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Duane Smith, can be reached at 571-272-1166.

The centralized facsimile number for the USPTO is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ivars C. Cintins
Primary Examiner
Art Unit 1724

I. Cintins March 8, 2006